

09/976877

gjc

HEWLETT-PACKARD CO.  
Legal Dept., Intellectual Property Section  
3404 E. Harmony Road, M/S 79  
Fort Collins, Colorado 80528

PATENT APPLICATION

ATTORNEY DOCKET NO. 10011728-1



September 27, 2007

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: United States Patent No. 7,172,991 issued February 6,  
2007 for INTEGRATED CD/DVD RECORDING AND LABELING

Dear Sir:

Enclosed for filing (in duplicate) is a Certificate of  
Correction of the above-identified patent. Please record the  
document.

The typographical errors in this patent were made by both  
the U.S. Patent and Trademark Office and the patentee in this  
case. Please charge the necessary fees to Deposit Account No.  
08-2025. A duplicate copy of this letter is enclosed for that  
purpose.

Sincerely,

KLAAS, LAW, O'MEARA & MALKIN, P.C.

  
Jay K. Malkin

JKM/jlr  
Enclosures

Certificate  
OCT 04 2007  
of Correction

OCT 4 2007

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

### In the Specification

Col. 5 (line 34), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 8 (line 62), delete "R3" and insert therefor --R<sup>3</sup>--.

Col. 8 (line 62), delete "aryl, aryl," and insert therefor --aryl,--.

Col. 8 (line 63), delete "R4 and R5" and insert therefor --R<sup>4</sup> and R<sup>5</sup>--.

Col. 8 (line 65), delete "R6 through R13" and insert therefor --R<sup>6</sup> through R<sup>13</sup>--.

Col. 8 (line 66), delete "alkyl aryl," and insert therefor --alkyl, aryl,--.

Col. 8 (line 66), delete "R6" and insert therefor --R<sup>6</sup>--.

Col. 8 (line 67), delete "R9" and insert therefor --R<sup>9</sup>--.

Col. 8 (line 67), delete "R10 through R13" and insert therefor --R<sup>10</sup> through R<sup>13</sup>--.

Col. 8 (line 67), delete "R10" and insert therefor --R<sup>10</sup>--.

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PATENT NO. 7,172,991

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 9 (line 1), delete "R13" and insert therefor --R<sup>13</sup>--.

Col. 9 (line 1), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 9 (line 4), delete " CR'R' " and insert therefor --CR'R"--.

Col. 9 (line 48), delete "R1 through R6" and insert therefor --R<sup>1</sup> through R<sup>6</sup>--.

Col. 9 (line 50), delete "N-R7, wherein R7" and insert therefor --N-R<sup>7</sup>, wherein R<sup>7</sup>--.

Col. 9 (line 66), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 10 (line 1), delete "N-R7, wherein R7" and insert therefor --N-R<sup>7</sup>, wherein R<sup>7</sup>--.

Col. 10 (line 2), delete "R3 and R4" and insert therefor --R<sup>3</sup> and R<sup>4</sup>--.

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# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

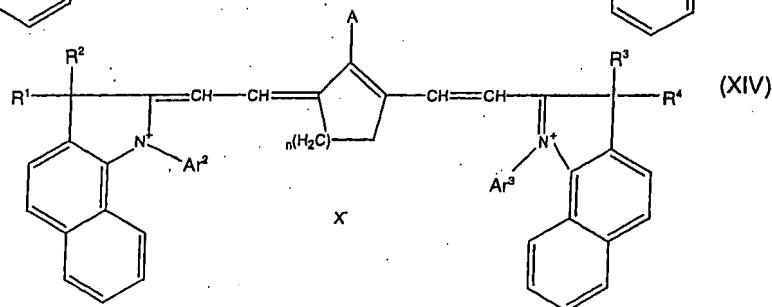
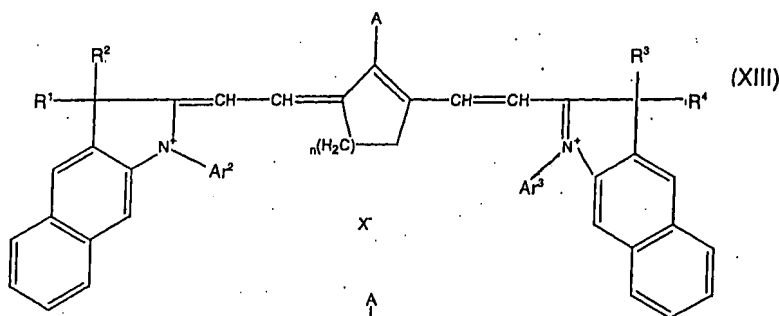
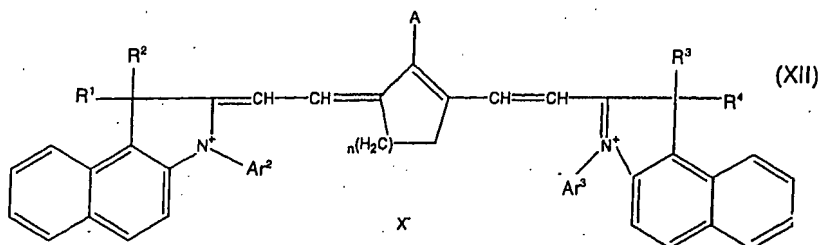
PATENT NO : 7,172,991

DATED : February 6, 2007

INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 10, Structures (XII), (XIII), and (XIV): delete the entire structures (XII), (XIII), and (XIV) and replace them with the following structures (XII), (XIII), and (XIV):



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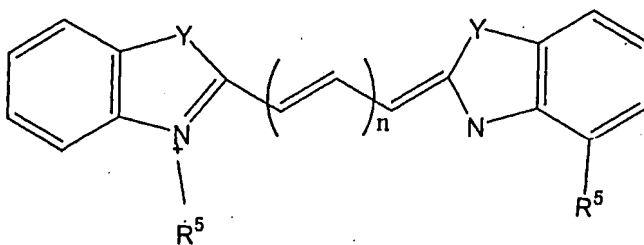
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 10 (line 45), delete "R1-R4" and insert therefor --R<sup>1</sup>-R<sup>4</sup>--.

Col. 10 (line 47), delete "Ar2 and Ar3" and insert therefor --Ar<sup>2</sup> and Ar<sup>3</sup>--.

Col. 12, Formula (XX): delete the entire formula (XX) and replace it with the following formula (XX):

(XX)



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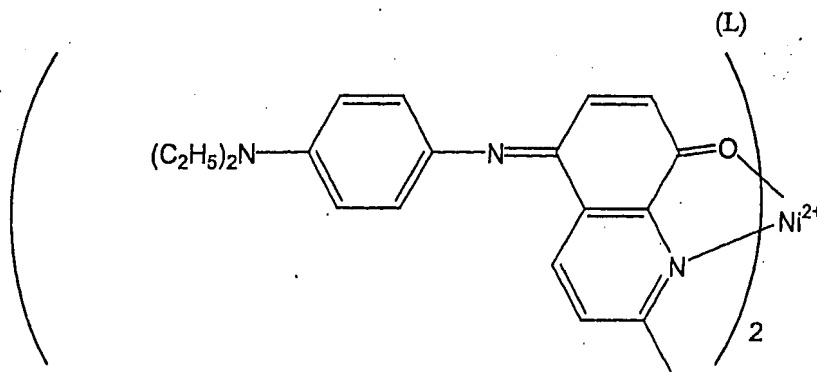
PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 12 (line 66), delete "R5" and insert therefor --R<sup>5</sup>--.

Col. 12 (line 67), delete "N-CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>2</sub>," and insert therefor --N-CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>2</sub>--.

Col. 19, Structure (L): delete the entire structure (L) and replace it with the following structure (L):



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INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

### In the Claims

Col. 22 (line 22), after "materials", delete "selected from".

Col. 22 (line 23), after "ing", delete "at least one of the group consisting of".

Col. 22 (line 24), after "absorbing", delete "heat sensitive".

Col. 22 (line 47), delete "xan-".

Col. 22 (line 48), delete "thene compounds,".

Col. 22 (line 55), delete "3-methyl-2,2-spirobi(benzo-f-chrome)," and insert therefor --3-methyl-2,2'-spirobi(benzo-f-chrome),--.

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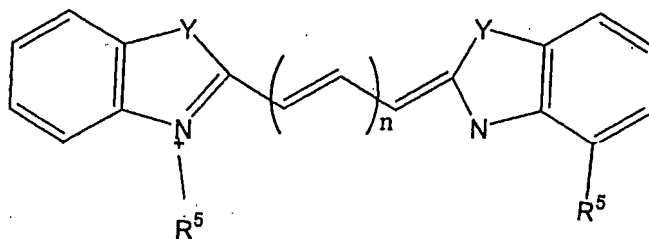
## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 23, Formula (XX): delete the entire formula (XX) and replace it with the following formula (XX):

(XX)



Col. 23 (line 25), delete "R5" and insert therefor --R<sup>5</sup>--.

Col. 23 (line 26), delete "N-CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>2</sub>," and insert therefor --N-CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>2</sub>--.

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

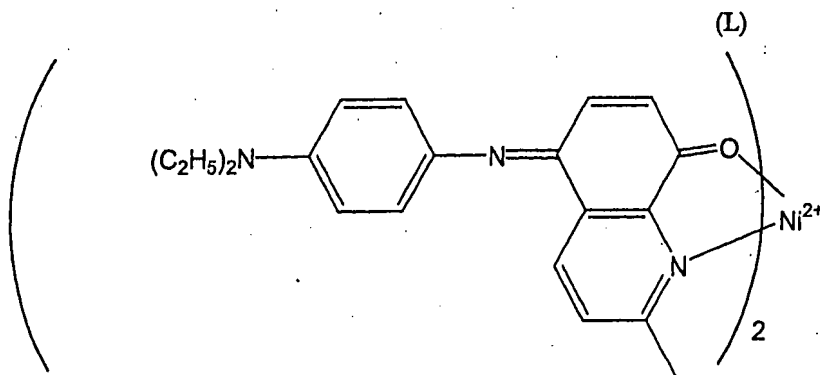
PATENT NO : 7,172,991

DATED : February 6, 2007

INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 29, Structure (L): delete the entire structure (L) and replace it with the following structure (L):



Col. 29 (line 53), delete "R1R2N-substituent" and insert therefor --R<sup>1</sup>R<sup>2</sup>N-substituent--.

Col. 29 (line 55), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 30 (line 49), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 32 (line 19), delete "X, X<sup>1</sup>, X<sup>2</sup> and R<sup>1</sup>" and insert therefor --X, X<sup>1</sup>, X<sup>2</sup> and R<sup>1</sup>--.

Col. 32 (line 20), delete "R<sup>6</sup>" and insert therefor --R<sup>6</sup>--.

Col. 32 (line 20), delete "C):" and insert therefor --c):--.

Col. 32 (line 21), delete "R<sup>4</sup>" and insert therefor --R<sup>4</sup>--.

Col. 32 (line 26), delete "R<sup>4</sup>" and insert therefor --R<sup>4</sup>--.

Col. 32 (line 27), delete "R<sup>7</sup> and R<sup>8</sup>" and insert therefor --R<sup>7</sup> and R<sup>8</sup>--.

Col. 32 (line 28), delete "R<sup>7</sup>" and insert therefor --R<sup>7</sup>--.

Col. 32 (line 29), delete "R<sup>8</sup>" and insert therefor --R<sup>8</sup>--.

Col. 32 (line 31), delete "C<sub>2</sub>H<sub>4</sub>- bond," and insert therefor --C<sub>2</sub>H<sub>4</sub>- bond,--.

Col. 33 (line 19), delete "X, X<sub>1</sub>, X<sub>2</sub> and R<sub>1</sub>" and insert therefor --X, X<sup>1</sup>, X<sup>2</sup> and R<sup>1</sup>--.

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PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 33 (line 20), delete "R<sub>6</sub>" and insert therefor --R<sup>6</sup>--.

Col. 33 (line 22), delete "OH<sub>3</sub>;" and insert therefor --CH<sub>3</sub>;--.

Col. 33 (line 32), delete "R<sub>2</sub>, R<sub>4</sub>," and insert therefor --R<sup>2</sup>, R<sup>4</sup>,--.

Col. 33, delete chemical structures III and IV.

Col. 34 (line 16), delete "R<sub>4</sub>" and insert therefor --R<sup>4</sup>--.

Col. 34 (line 18), delete "R<sub>2</sub> and R<sub>4</sub>" and insert therefor --R<sup>2</sup> and R<sup>4</sup>--.

Col. 34 (line 20), delete "feast" and insert therefor --least--.

Col. 34 (line 36), delete "comprising".

Col. 34 (line 66), delete "aryl, aryl," and insert therefor --aryl,--.

Col. 34 (line 67), delete "R<sub>4</sub>" and insert therefor --R<sup>4</sup>--.

Col. 35 (line 2), delete "R<sub>13</sub>" and insert therefor --R<sup>13</sup>--.

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INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 35 (line 3), delete "R6" and insert therefor --R<sup>6</sup>--.

Col. 35 (line 4), delete "R9" and insert therefor --R<sup>9</sup>--.

Col. 35 (line 4), delete "R10 through R13" and insert therefor --R<sup>10</sup> through R<sup>13</sup>--.

Col. 35 (line 4), at the end of the line delete "R10" and insert therefor --R<sup>10</sup>--.

Col. 35 (line 5), delete "R13" and insert therefor --R<sup>13</sup>--.

Col. 35 (line 5), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 35 (line 8), delete "CR'R' " and insert therefor --CR'R"--.

Col. 35 (line 33), delete "R8" and insert therefor --R<sup>8</sup>--.

Col. 35 (line 64), delete "R1 through R6" and insert therefor --R<sup>1</sup> through R<sup>6</sup>--.

Col. 35 (line 66), delete "N-R7, wherein R7" and insert therefor --N-R<sup>7</sup>, wherein R<sup>7</sup>--.

Col. 36 (line 1), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 36 (line 3), delete "N-R7, wherein R7" and insert therefor --N-R<sup>7</sup>, wherein R<sup>7</sup>--.

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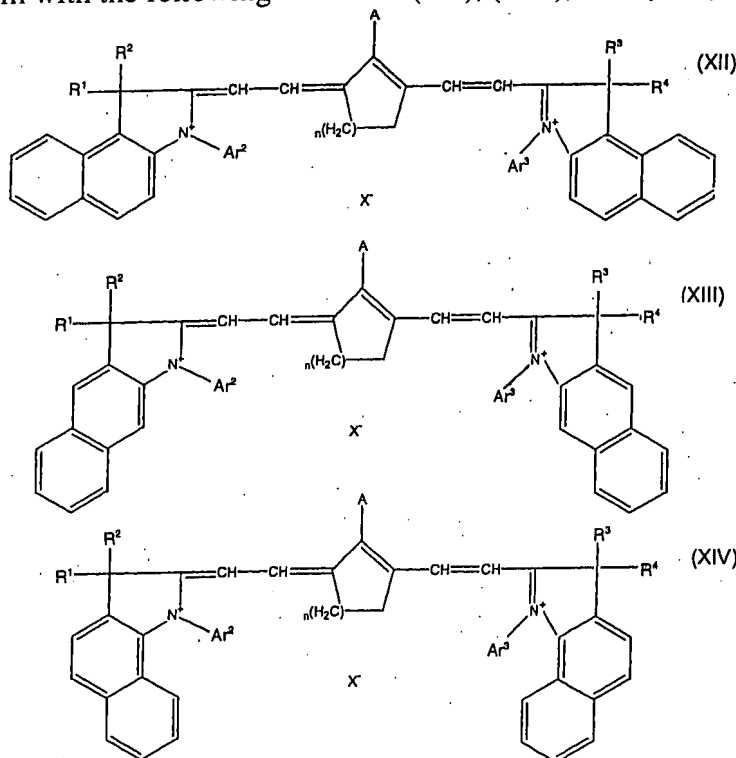
## CERTIFICATE OF CORRECTION

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 INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 36 (line 4), delete "R3 and R4" and insert therefor --of R<sup>3</sup> and R<sup>4</sup>--.

Col. 36, Structures (XII), (XIII), and (XIV): delete the entire structures (XII), (XIII), and (XIV) and replace them with the following structures (XII), (XIII), and (XIV):



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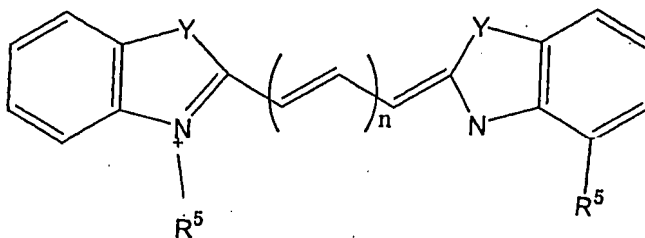
Col. 36 (line 40), delete "R1-R4" and insert therefor --R<sup>1</sup>-R<sup>4</sup>--.

Col. 36 (line 42), delete "Ar2 and Ar3" and insert therefor --Ar<sup>2</sup> and Ar<sup>3</sup>--.

Col. 37 (line 23), after "area", delete "is".

Col. 38, Formula (XX): delete the entire formula (XX) and replace it with the following formula (XX):

(XX)



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INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 38 (line 20), delete "R5" and insert therefor --R<sup>5</sup>--.

Col. 38 (line 21), delete "N-CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>2</sub>," and insert therefor --N-CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>2</sub>--.

Col. 38 (line 32), delete "of." and insert therefor --of:--.

Col. 38 (line 55), delete "of" and insert therefor --of:--.

Col. 40 (line 2), delete "of" and insert therefor --of:--.

Col. 40 (line 26), delete "of" and insert therefor --of:--.

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PATENT NO. 7,172,991

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

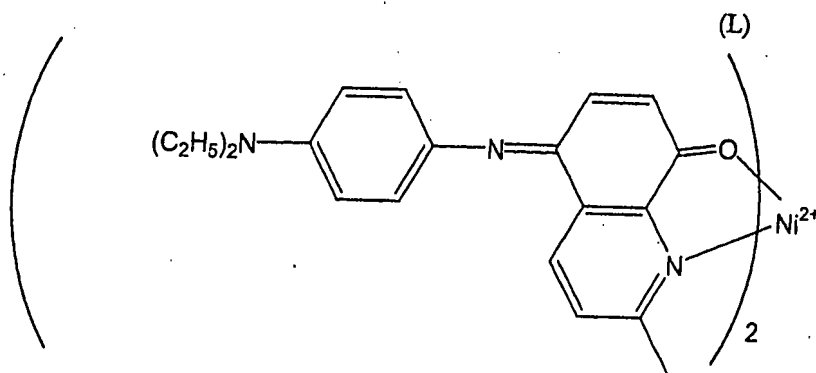
PATENT NO : 7,172,991

DATED : February 6, 2007

INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 45, Structure (L): delete the entire structure (L) and replace it with the following structure (L):



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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 45 (line 32), delete "R1R2N-substituent" and insert therefor --R<sup>1</sup>R<sup>2</sup>N-substituent--.

Col. 45 (line 34), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 45 (line 45), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 47 (line 39), delete "X, X1, X2 and R1" and insert therefor --X, X<sup>1</sup>, X<sup>2</sup> and R<sup>1</sup>--.

Col. 47 (line 40), delete "(C):" and insert therefor --c):--.

Col. 47 (line 48), delete "C1-C10" and insert therefor --C1-C8--.

Col. 48 (line 34), delete "X, X<sub>1</sub>, X<sub>2</sub> and R<sub>1</sub>" and insert therefor --X, X<sup>1</sup>, X<sup>2</sup> and R<sup>1</sup>--.

Col. 48 (line 35), delete "R<sub>6</sub>" and insert therefor --R<sup>6</sup>--.

Col. 48 (line 37), delete "OH<sub>3</sub>;" and insert therefor --CH<sub>3</sub>;--.

Col. 49 (line 51), delete "R3" and insert therefor --R<sup>3</sup>--.

Col. 49 (line 51), delete "aryl, aryl," and insert therefor --aryl,--.

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PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 49 (line 52), delete "R4 and R5" and insert therefor --R<sup>4</sup> and R<sup>5</sup>--.

Col. 49 (line 54), delete "R6 through R13" and insert therefor --R<sup>6</sup> through R<sup>13</sup>--.

Col. 49 (line 55), delete "R6" and insert therefor --R<sup>6</sup>--.

Col. 49 (line 56), delete "R9" and insert therefor --R<sup>9</sup>--.

Col. 49 (line 56), delete "R10 through R13" and insert therefor --R<sup>10</sup> through R<sup>13</sup>--.

Col. 49 (line 56), at the end of the line delete "R10" and insert therefor --R<sup>10</sup>--.

Col. 49 (line 57), delete "R13" and insert therefor --R<sup>13</sup>--.

Col. 49 (line 57), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 49 (line 60), delete " CR'R' " and insert therefor --CR'R"--.

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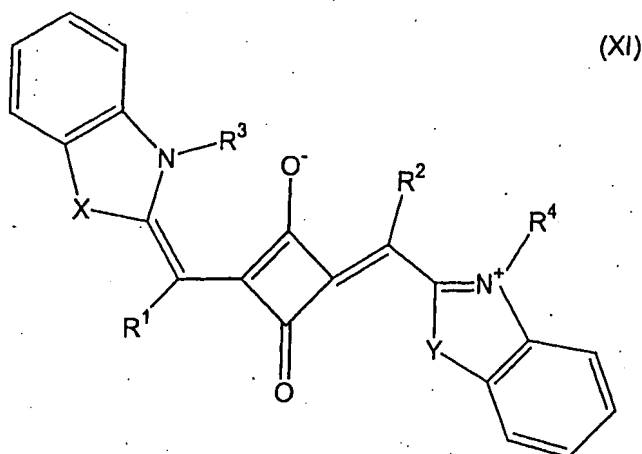
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PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 50, before line 35, insert the following structure:



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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 50 (line 35), delete "R1 through R6" and insert therefor --R<sup>1</sup> through R<sup>6</sup>--.

Col. 50 (line 37), delete "N-R7, wherein R7" and insert therefor --N-R<sup>7</sup>, wherein R<sup>7</sup>--.

Col. 50 (line 39), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 50 (line 41), delete "N-R7, wherein R7" and insert therefor --N-R<sup>7</sup>, wherein R<sup>7</sup>--.

Col. 50 (line 42), delete "R3 and R4" and insert therefor --R<sup>3</sup> and R<sup>4</sup>--.

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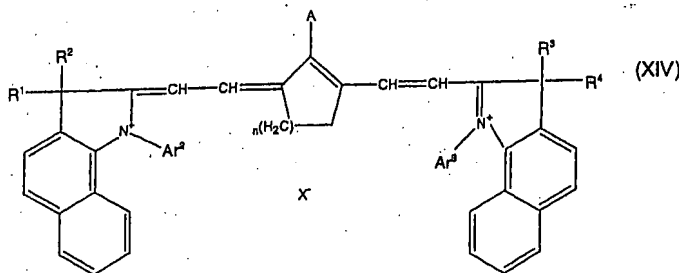
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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 51 (line 1), delete the entire structure (XIV) and replace it with the following structure (XIV):



Col. 51 (line 15), delete "R1-R4" and insert therefor --R<sup>1</sup>-R<sup>4</sup>--.

Col. 51 (line 17), delete "Ar2 and Ar3" and insert therefor --Ar<sup>2</sup> and Ar<sup>3</sup>--.

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Legal Dept., Intellectual Property Section  
3404 E. Harmony Road, M/S 79  
Fort Collins, Colorado 80528

PATENT APPLICATION  
ATTORNEY DOCKET NO. 10011728-1

September 27, 2007

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: United States Patent No. 7,172,991 issued February 6,  
2007 for INTEGRATED CD/DVD RECORDING AND LABELING

Dear Sir:

Enclosed for filing (in duplicate) is a Certificate of Correction of the above-identified patent. Please record the document.

The typographical errors in this patent were made by both the U.S. Patent and Trademark Office and the patentee in this case. Please charge the necessary fees to Deposit Account No. 08-2025. A duplicate copy of this letter is enclosed for that purpose.

Sincerely,

KLAAS, LAW, O'MEARA & MALKIN, P.C.

  
Jay K. Malkin

JKM/jlr  
Enclosures

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

### In the Specification

Col. 5 (line 34), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 8 (line 62), delete "R3" and insert therefor --R<sup>3</sup>--.

Col. 8 (line 62), delete "aryl, aryl," and insert therefor --aryl,--.

Col. 8 (line 63), delete "R4 and R5" and insert therefor --R<sup>4</sup> and R<sup>5</sup>--.

Col. 8 (line 65), delete "R6 through R13" and insert therefor --R<sup>6</sup> through R<sup>13</sup>--.

Col. 8 (line 66), delete "alkyl aryl," and insert therefor --alkyl, aryl,--.

Col. 8 (line 66), delete "R6" and insert therefor --R<sup>6</sup>--.

Col. 8 (line 67), delete "R9" and insert therefor --R<sup>9</sup>--.

Col. 8 (line 67), delete "R10 through R13" and insert therefor --R<sup>10</sup> through R<sup>13</sup>--.

Col. 8 (line 67), delete "R10" and insert therefor --R<sup>10</sup>--.

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 9 (line 1), delete "R13" and insert therefor --R<sup>13</sup>--.

Col. 9 (line 1), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 9 (line 4), delete "CR'R' " and insert therefor --CR'R"--.

Col. 9 (line 48), delete "R1 through R6" and insert therefor --R<sup>1</sup> through R<sup>6</sup>--.

Col. 9 (line 50), delete "N-R7, wherein R7" and insert therefor --N-R<sup>7</sup>, wherein R<sup>7</sup>--.

Col. 9 (line 66), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 10 (line 1), delete "N-R7, wherein R7" and insert therefor --N-R<sup>7</sup>, wherein R<sup>7</sup>--.

Col. 10 (line 2), delete "R3 and R4" and insert therefor --R<sup>3</sup> and R<sup>4</sup>--.

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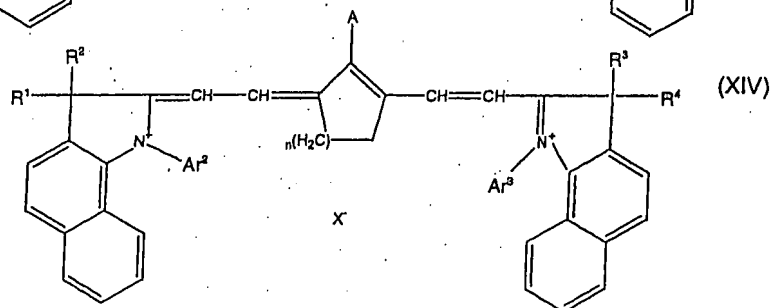
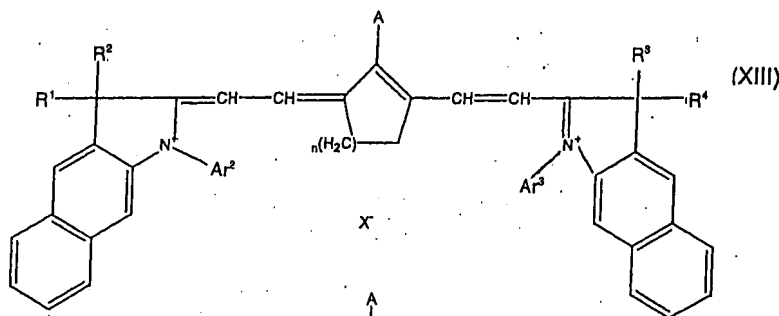
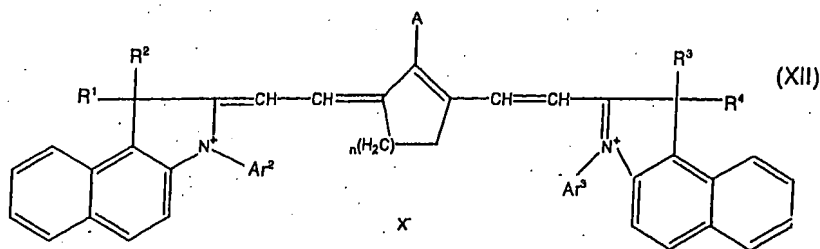
## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991

DATED : February 6, 2007

INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:  
Col. 10, Structures (XII), (XIII), and (XIV): delete the entire structures (XII), (XIII), and (XIV) and replace them with the following structures (XII), (XIII), and (XIV):



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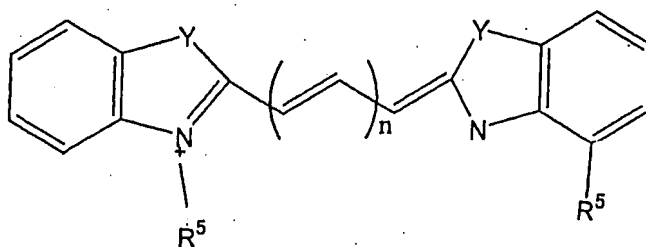
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(Also Form PTO-1050)UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTIONPATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 10 (line 45), delete "R1-R4" and insert therefor --R<sup>1</sup>-R<sup>4</sup>--.Col. 10 (line 47), delete "Ar2 and Ar3" and insert therefor --Ar<sup>2</sup> and Ar<sup>3</sup>--.

Col. 12, Formula (XX): delete the entire formula (XX) and replace it with the following formula (XX):

(XX)

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

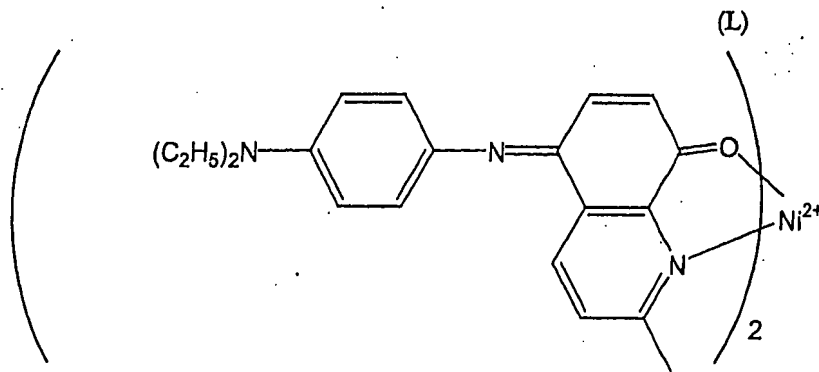
PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 12 (line 66), delete "R5" and insert therefor --R<sup>5</sup>--.

Col. 12 (line 67), delete "N-CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>2</sub>," and insert therefor --N-CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>2</sub>--.

Col. 19, Structure (L): delete the entire structure (L) and replace it with the following structure (L):



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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

### In the Claims

Col. 22 (line 22), after "materials", delete "selected from".

Col. 22 (line 23), after "ing", delete "at least one of the group consisting of".

Col. 22 (line 24), after "absorbing", delete "heat sensitive".

Col. 22 (line 47), delete "xan-".

Col. 22 (line 48), delete "thene compounds,".

Col. 22 (line 55), delete "3-methyl-2,2-spirobi(benzo-f-chrome)," and insert therefor --3-methyl-2,2'-spirobi(benzo-f-chrome),--.

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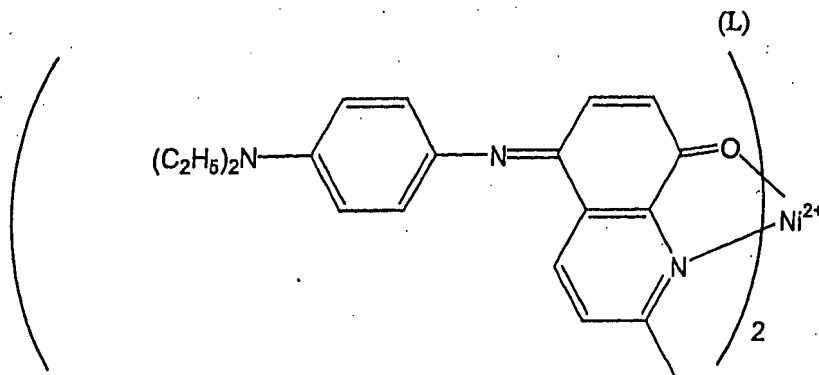
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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 29, Structure (L): delete the entire structure (L) and replace it with the following structure (L):



Col. 29 (line 53), delete "R1R2N-substituent" and insert therefor --R<sup>1</sup>R<sup>2</sup>N-substituent--.

Col. 29 (line 55), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 30 (line 49), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

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INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 32 (line 19), delete "X, X<sup>1</sup>, X<sup>2</sup> and R<sup>1</sup>" and insert therefor --X, X<sup>1</sup>, X<sup>2</sup> and R<sup>1</sup>--.

Col. 32 (line 20), delete "R<sup>6</sup>" and insert therefor --R<sup>6</sup>--.

Col. 32 (line 20), delete "C):" and insert therefor --c):--.

Col. 32 (line 21), delete "R<sup>4</sup>" and insert therefor --R<sup>4</sup>--.

Col. 32 (line 26), delete "R<sup>4</sup>" and insert therefor --R<sup>4</sup>--.

Col. 32 (line 27), delete "R<sup>7</sup> and R<sup>8</sup>" and insert therefor --R<sup>7</sup> and R<sup>8</sup>--.

Col. 32 (line 28), delete "R<sup>7</sup>" and insert therefor --R<sup>7</sup>--.

Col. 32 (line 29), delete "R<sup>8</sup>" and insert therefor --R<sup>8</sup>--.

Col. 32 (line 31), delete "C<sub>2</sub>H<sub>4</sub>- bond," and insert therefor --C<sub>2</sub>H<sub>4</sub>- bond,--.

Col. 33 (line 19), delete "X, X<sub>1</sub>, X<sub>2</sub> and R<sub>1</sub>" and insert therefor --X, X<sup>1</sup>, X<sup>2</sup> and R<sup>1</sup>--.

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PATENT NO. 7,172,991

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 33 (line 20), delete "R<sub>6</sub>" and insert therefor --R<sup>6</sup>--.

Col. 33 (line 22), delete "OH<sub>3</sub>;" and insert therefor --CH<sub>3</sub>--.

Col. 33 (line 32), delete "R<sub>2</sub>, R<sub>4</sub>," and insert therefor --R<sup>2</sup>, R<sup>4</sup>--.

Col. 33, delete chemical structures III and IV.

Col. 34 (line 16), delete "R<sub>4</sub>" and insert therefor --R<sup>4</sup>--.

Col. 34 (line 18), delete "R<sub>2</sub> and R<sub>4</sub>" and insert therefor --R<sup>2</sup> and R<sup>4</sup>--.

Col. 34 (line 20), delete "feast" and insert therefor --least--.

Col. 34 (line 36), delete "comprising".

Col. 34 (line 66), delete "aryl, aryl," and insert therefor --aryl--.

Col. 34 (line 67), delete "R<sub>4</sub>" and insert therefor --R<sup>4</sup>--.

Col. 35 (line 2), delete "R<sub>13</sub>" and insert therefor --R<sup>13</sup>--.

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 35 (line 3), delete "R6" and insert therefor --R<sup>6</sup>--.

Col. 35 (line 4), delete "R9" and insert therefor --R<sup>9</sup>--.

Col. 35 (line 4), delete "R10 through R13" and insert therefor --R<sup>10</sup> through R<sup>13</sup>--.

Col. 35 (line 4), at the end of the line delete "R10" and insert therefor --R<sup>10</sup>--.

Col. 35 (line 5), delete "R13" and insert therefor --R<sup>13</sup>--.

Col. 35 (line 5), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 35 (line 8), delete "CR'R' " and insert therefor --CR'R"--.

Col. 35 (line 33), delete "R8" and insert therefor --R<sup>8</sup>--.

Col. 35 (line 64), delete "R1 through R6" and insert therefor --R<sup>1</sup> through R<sup>6</sup>--.

Col. 35 (line 66), delete "N-R7, wherein R7" and insert therefor --N-R<sup>7</sup>, wherein R<sup>7</sup>--.

Col. 36 (line 1), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 36 (line 3), delete "N-R7, wherein R7" and insert therefor --N-R<sup>7</sup>, wherein R<sup>7</sup>--.

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# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991

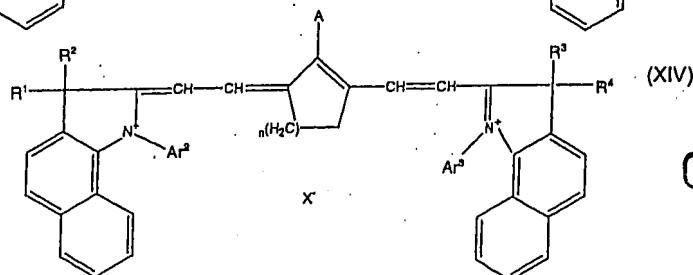
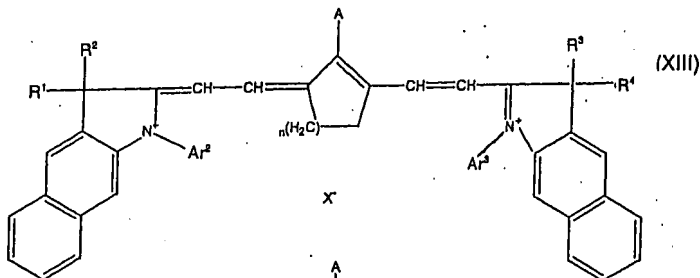
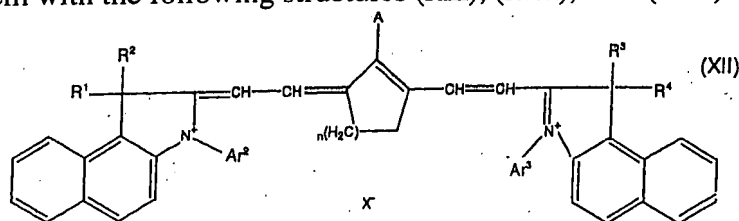
DATED : February 6, 2007

INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 36 (line 4), delete "R3 and R4" and insert therefor --of R<sup>3</sup> and R<sup>4</sup>--.

Col. 36, Structures (XII), (XIII), and (XIV): delete the entire structures (XII), (XIII), and (XIV) and replace them with the following structures (XII), (XIII), and (XIV):



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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

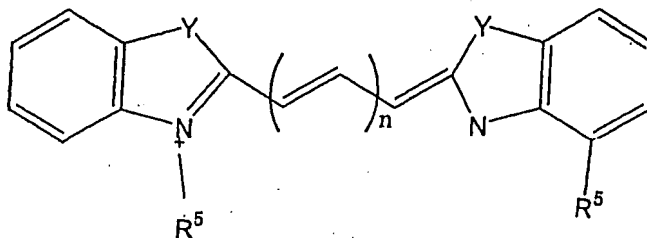
Col. 36 (line 40), delete "R1-R4" and insert therefor --R<sup>1</sup>-R<sup>4</sup>--.

Col. 36 (line 42), delete "Ar2 and Ar3" and insert therefor --Ar<sup>2</sup> and Ar<sup>3</sup>--.

Col. 37 (line 23), after "area", delete "is".

Col. 38, Formula (XX): delete the entire formula (XX) and replace it with the following formula (XX):

(XX)



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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 38 (line 20), delete "R5" and insert therefor --R<sup>5</sup>--.

Col. 38 (line 21), delete "N-CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>2</sub>," and insert therefor --N-CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>2</sub>--.

Col. 38 (line 32), delete "of." and insert therefor --of:--.

Col. 38 (line 55), delete "of" and insert therefor --of:--.

Col. 40 (line 2), delete "of" and insert therefor --of:--.

Col. 40 (line 26), delete "of" and insert therefor --of:--.

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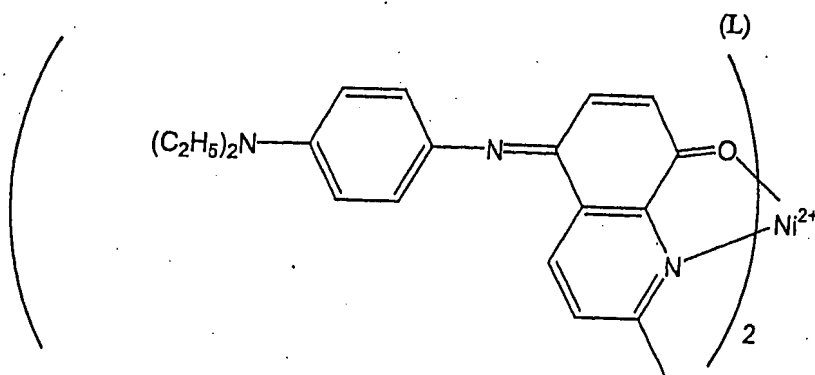
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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 45, Structure (L): delete the entire structure (L) and replace it with the following structure (L):



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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 45 (line 32), delete "R1R2N-substituent" and insert therefor --R<sup>1</sup>R<sup>2</sup>N-substituent--.

Col. 45 (line 34), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 45 (line 45), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 47 (line 39), delete "X, X1, X2 and R1" and insert therefor --X, X<sup>1</sup>, X<sup>2</sup> and R<sup>1</sup>--.

Col. 47 (line 40), delete "(C):" and insert therefor --c):--.

Col. 47 (line 48), delete "C1-C10" and insert therefor --C1-C8--.

Col. 48 (line 34), delete "X, X<sub>1</sub>, X<sub>2</sub> and R<sub>1</sub>" and insert therefor --X, X<sup>1</sup>, X<sup>2</sup> and R<sup>1</sup>--.

Col. 48 (line 35), delete "R<sub>6</sub>" and insert therefor --R<sup>6</sup>--.

Col. 48 (line 37), delete "OH<sub>3</sub>;" and insert therefor --CH<sub>3</sub>;--.

Col. 49 (line 51), delete "R3" and insert therefor --R<sup>3</sup>--.

Col. 49 (line 51), delete "aryl, aryl," and insert therefor --aryl,--.

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(Also Form PTO-1050)**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

PATENT NO : 7,172,991  
 DATED : February 6, 2007  
 INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 49 (line 52), delete "R4 and R5" and insert therefor --R<sup>4</sup> and R<sup>5</sup>--.

Col. 49 (line 54), delete "R6 through R13" and insert therefor --R<sup>6</sup> through R<sup>13</sup>--.

Col. 49 (line 55), delete "R6" and insert therefor --R<sup>6</sup>--.

Col. 49 (line 56), delete "R9" and insert therefor --R<sup>9</sup>--.

Col. 49 (line 56), delete "R10 through R13" and insert therefor --R<sup>10</sup> through R<sup>13</sup>--.

Col. 49 (line 56), at the end of the line delete "R10" and insert therefor --R<sup>10</sup>--.

Col. 49 (line 57), delete "R13" and insert therefor --R<sup>13</sup>--.

Col. 49 (line 57), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 49 (line 60), delete "CR'R' " and insert therefor --CR'R"--.

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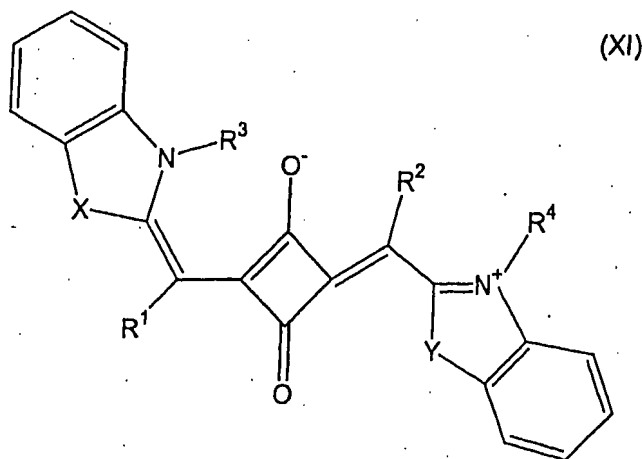
PATENT NO : 7,172,991

DATED : February 6, 2007

INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 50, before line 35, insert the following structure:



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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 7,172,991  
DATED : February 6, 2007  
INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 50 (line 35), delete "R1 through R6" and insert therefor --R<sup>1</sup> through R<sup>6</sup>--.

Col. 50 (line 37), delete "N-R7, wherein R7" and insert therefor --N-R<sup>7</sup>, wherein R<sup>7</sup>--.

Col. 50 (line 39), delete "R1 and R2" and insert therefor --R<sup>1</sup> and R<sup>2</sup>--.

Col. 50 (line 41), delete "N-R7, wherein R7" and insert therefor --N-R<sup>7</sup>, wherein R<sup>7</sup>--.

Col. 50 (line 42), delete "R3 and R4" and insert therefor --R<sup>3</sup> and R<sup>4</sup>--.

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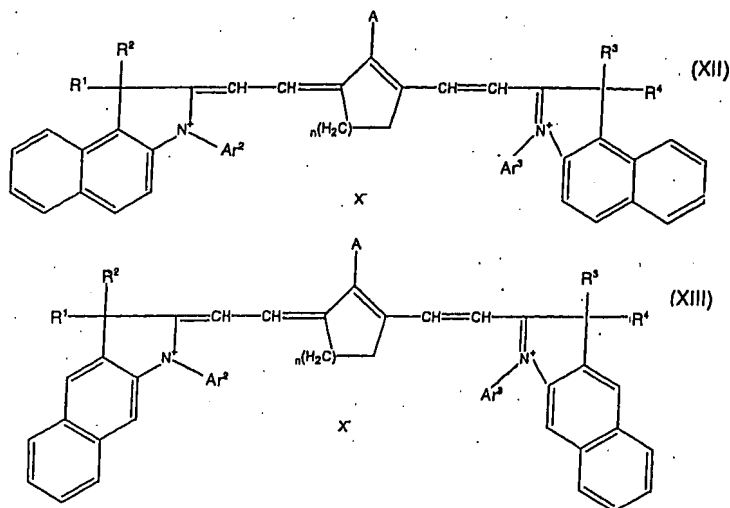
PATENT NO : 7,172,991

DATED : February 6, 2007

INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 50, Structures (XII) and (XIII): delete the entire structures (XII) and (XIII) and replace them with the following structures (XII) and (XIII):



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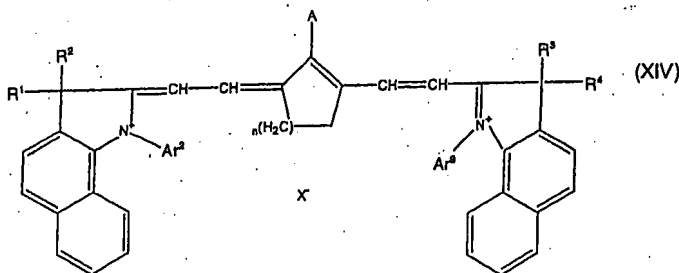
PATENT NO : 7,172,991

DATED : February 6, 2007

INVENTOR(S) : Anderson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Col. 51 (line 1), delete the entire structure (XIV) and replace it with the following structure (XIV):



Col. 51 (line 15), delete "R1-R4" and insert therefor --R<sup>1</sup>-R<sup>4</sup>--.

Col. 51 (line 17), delete "Ar2 and Ar3" and insert therefor --Ar<sup>2</sup> and Ar<sup>3</sup>--.

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